

# USPS Pricing Engine SDK

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December 8, 2020

## Summary

This is the Domestic and International Pricing Engine SDK (version 11.11.0.0) for the January 2021 Release. The following is a list of enhancements included in this release.

### BNS 5644 - Jan 2021 PC - Price Change Omnibus

The Price Engine supports the January 2021 Domestic and International prices changes.

### BNS 6916 - Jan 2021 PC - Correct FCPI Size Limits

The Price Engine has a new content type of “Rolls” (like the other content type of “NonMachinable”). This change allows the pricing engine to differentiate between FCPI rolls and non-rolls. When “Rolls” is selected, dimensions, if supplied, will be verified against the roll dimensional range, and roll dimensions will be returned.

- Non Rolls of 6 inches minimum length x 4 inches minimum height
- ePacket of 6 inches minimum length x 4 inches minimum height

### BNS 5295 - CR 5295.1: International Outbound Country-Based Pricing Jan 2021 (New Country Price Groups)

The Price Engine is supporting the expanded Price Groups for International mail services. The expanded Price Groups will impact the following mail services:

- PME – adding price groups 18, 19, and 20
- PMI – adding price groups 18, 19, and 20
- FCPI – adding price groups 10 through 20
- IPA – adding price group 20
- ISAL – adding price group 20

### BNS 28833 - Seamless Acceptance Incentive

The Price Engine has added SKUs for the Seamless Acceptance program.

### BNS 49452 – (WebTools CR529) - USPS Returns API

The Pricing Engine has added SKUs for USPS Returns mail services. These mail services are accessible through the GetPriceBySKU API.

- Domestic, First-Class Mail, Parcels, Return, Single-Piece
- Domestic, Parcel Select, Parcels, Return
- Domestic, Priority Mail, Return

## **BNS 54354 (CR534) - Loyalty Points (CNS)**

The Price Engine supports the Loyalty Points program. Customer Map 008B3 is enabled and returns:

1. Commercial Base pricing for mail and extra services associated with:
  - Priority Mail
  - Priority Mail Express
2. Retail Prices for mail and extra services associate with:
  - First-Class Package Service-Retail
  - Retail Ground
  - Priority Mail International
  - Priority Mail Express International
  - Global Express Guaranteed
  - First-Class Package International Service

## **RCalc BNS 5644 - Jan 2021 PC - Update Holidays for 2021**

The USPS holidays have been updated with the holidays for 2021 and the initial holidays for 2022.

## **BNS 5644 - Jan 2021 PC - Update SDR Value**

The Special Drawing Right has been updated for this release.

## **D-56887 Multiple Records returned for some countries in GetCountryRegulations**

This defect was corrected to return just one row.

## **Changes to the Database Structure**

None for this release.

## **Updated version number and sign all DLLs**

All the libraries have been update to version 11.10.0.0 and re-signed.

## **Updated databases**

New databases have been created for this release: USPS\_DOM\_2021\_01 and USPS\_INTL\_2021\_01 for domestic and international respectively.

There are SKU Dictionary updates in this release. They need to be applied to the 2021\_01 databases. They are located in the SKUDictionary folder. A batch file, sql\_update\_import.bat, has been provided to assist with their deployment. Execute the batch file by passing the targeted database. Note the batch file assumes the databases are LOCAL.

To execute and update your domestic and international databases:

sql\_update\_import.bat USPS\_DOM\_2021\_01

sql\_update\_import.bat USPS\_INTL\_2021\_01

## Impact on Existing Applications

You will have to rebuild your applications.

## Instructions

1. Copy the DLLs
2. Restore the databases (SQL Server 2016 backups). The database backups are not included and can be downloaded separately. Note: the SQL script files have been included in the package for those that cannot restore the SQL Server 2016 backups. SQL Scripts should be executed in the order shown below.

Note that scripts “CreateClient\_PriceCalc\_014X0.sql” and “CreateClient\_CNS\_008B3.sql” for domestic and “CreateClient\_CNSv2\_008B3.sql for international must be executed on the 2021\_01 and 2020\_01 databases.

## Contents

Description	File
Folder	Database
Folder	Domestic
Database	USPS_DOM_2021_01
SQL Script	B-470878 Jan 2021 Price Change 20201113 - RateCalc Dom SKU Based.sql
SQL Script	B-470897 BNS 5644 - Update Holidays for 2021-2022.sql
SQL Script	CreateClient_CNS_008B3.sql
SQL Script	Update Returns SKUs.sql
Database	USPS_DOM_2020_01
SQL Script	CreateClient_CNS_008B3.sql
Folder	International
Database	USPS_INTL_2021_01
SQL Script	B-470878 Jan 2021 Price Change 20201113 - RateCalc Intl SKU Based.sql
SQL Script	B-476012 BNS 5295 - CR 52951 New Price Groups for PS 3700 – Implement.sql
SQL Script	B-476367 Update SDR Value
SQL Script	CreateClient_CNSv2_008B3.sql
SQL Script	CreateClient_PriceCalc_014X0.sql
SQL Script	Jan 24, 2021 Release 20201118 - Country Information.sql
Database	USPS_INTL_2020_01
SQL Script	CreateClient_CNSv2_008B3.sql
SQL Script	CreateClient_PriceCalc_014X0.sql
Folder	SKUDictionary

<b>Database</b>	USPS_DOM_2021_01, USPS_INTL_2021_01
<b>SQL Script</b>	B-478706_SKUColumnTitles.sql
<b>SQL Script</b>	B-478706_SKUColumnTitles_Truncate.sql
<b>SQL Script</b>	B-478706_SKUCrossReference.sql
<b>SQL Script</b>	B-478706_SKUCrossReference_Truncate.sql
<b>SQL Script</b>	B-478706_SKUDictionaries.sql
<b>SQL Script</b>	B-478706_SKUDictionaries_Truncate.sql
<b>SQL Script</b>	B-478706_SKUVariation.sql
<b>SQL Script</b>	B-478706_SKUVariation_Truncate.sql
<b>Batch Script</b>	sql_update_import.bat
<b>Folder</b>	DLL
<b>Rate Engine Framework</b>	RateEngine_Framework.dll
<b>Business Framework</b>	RateEngine_Business.dll
<b>Domestic Business Rate Engine</b>	RateEngine_DomBusiness.dll
<b>International Business Rate Engine</b>	RateEngine_IntlBusiness.dll
<b>Service Delivery Extensions</b>	ServiceDeliveryExtensions.dll
<b>Customs Forms Engine</b>	CustomsFormsEngine.dll
<b>Design Model</b>	Pricing Engine.pdf
<b>Release Notes</b>	USPS Pricing Engine SDK 11_11_0_0.pdf

## Reported Defects and Change Request

None at this time	
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